In the Claims:

1. – 31. (cancelled)

32. (previously presented) An adhesive layer for medical patches or for transdermal therapeutic systems, said adhesive layer having a tackiness which is activated and/or increased by contact with moisture or by absorption of moisture, wherein said adhesive layer comprises at least one pressure-sensitive adhesive polymer and at least one component selected from the group consisting of polyethers and acid anhydrides including acids and salts of acid anhydrides.

33. (previously presented) The adhesive layer according to claim 32, wherein said polyethers are polyvinylalkyl ethers comprising polyvinyl methyl ether, polyvinyl ethyl ether, polyvinyl isobutyl ether and polyvinyl cyclohexyl ether.

34. (previously presented) The adhesive layer according to claim 32, wherein said acid anhydrides comprise polymethyl vinyl-ether-polymaleic acid anhydride copolymers.

35. (previously presented) The adhesive layer according to claim 32, wherein said at least one pressure-sensitive adhesive polymer is selected from the group consisting of polyacrylates, polyisobutylenes, polyisoprenes and silicone adhesives.

36. (previously presented) An adhesive layer for medical patches or for transdermal therapeutic systems, said adhesive having a tackiness which is activated and/or increased by contact with moisture or by absorption of moisture, wherein said adhesive comprises at least one pressure-sensitive adhesive polymer and at least one cellulose derivative.

37. (previously presented) The adhesive layer according to claim 36, wherein said at least one cellulose derivative comprises hydroxypropyl methyl cellulose, hydroxypropyl

cellulose, sodium carboxymethyl cellulose, methyl cellulose, hydroxyethyl cellulose and hydroxypropyl ethyl cellulose.

38. (previously presented) The adhesive layer according to claim 36, wherein said at least one pressure-sensitive adhesive polymer is selected from the group consisting of polyacrylates, polyisobutylenes, polyisoprenes and silicone adhesives.

39. (previously presented) The adhesive layer according to claim 32, wherein said layer is in a dried state.

40. (previously presented) The adhesive layer according to claim 32, wherein said layer is a dried film.

41. (previously presented) An adhesive composition for preparing an adhesive layer for medical patches or for transdermal therapeutic systems, said adhesive layer having a tackiness which is activated and/or increased by contact with moisture or by absorption of moisture, wherein said adhesive layer comprises at least one pressure-sensitive adhesive polymer and at least one component selected from the group consisting of polyethers and acid anhydrides including acids and salts of acid anhydrides, said adhesive composition comprising:

at least one component selected from the group consisting of polyvinyl alcohols, cellulose derivatives, polyethers and acid anhydrides including acids and salts of acid anhydrides; and

at least one film-forming polymer selected from the group of non-pressure-sensitive adhesive polyacrylates, and/or at least one pressure-sensitive adhesive polymer; and

a solvent portion.

42. (previously presented) The adhesive composition according to claim 41, wherein the solvent of said solvent portion is a polar solvent.

43. (previously presented) The adhesive composition according to claim 42, wherein the solvent of said solvent portion is selected from the group consisting of water, aqueous solvent mixtures, alcohols and esters.

44. (previously presented) The adhesive composition according to claim 41, wherein the solvent of said solvent portion comprises hexane and ethyl acetate.

45. (previously presented) The adhesive composition according to claim 41, wherein said composition comprises polyvinylalcohol, at least one polymethyl vinyl ether-polymaleic acid anhydride copolymer, wherein the portion of polyvinyl alcohol is 1 – 80%-wt. relative to the sum of said two polymer components.

46. (previously presented) The adhesive composition according to claim 45, wherein the solvent of said solvent portion is water.

47. (new) An adhesive composition for preparing an adhesive layer for medical patches or for transdermal therapeutic systems, said adhesive layer having a tackiness which is activated and/or increased by contact with moisture or by absorption of moisture, wherein said adhesive layer comprises at least one pressure-sensitive adhesive polymer and at least one component selected from the group consisting of polyethers and acid anhydrides including acids and salts of acid anhydrides, said composition comprising:

polyvinylalcohol and at least one polymethyl vinyl ether-polymaleic acid anhydride copolymer, wherein the portion of polyvinylalcohol is 1-80%-wt. relative to the

sum of said two polymers;

at least one film-forming polymer being at least one selected from the group consisting of non-pressure-sensitive adhesive polyacrylates and at least one pressure-sensitive adhesive polymer; and

a solvent portion including a solvent.

48. (new) The adhesive composition according to claim 47, wherein the solvent of said solvent portion is a polar solvent.

49. (new) The adhesive composition according to claim 47, wherein the solvent of said solvent portion is selected from the group consisting of water, aqueous solvent mixtures, alcohols and esters.

50. (new) The adhesive composition according to claim 47, wherein the solvent of said solvent portion comprises hexane and ethyl acetate.

51. (new) The adhesive composition according to claim 47, wherein said at least one pressure-sensitive adhesive polymer is selected from the group consisting of polyacrylates, polyisobutylenes, polyisoprenes and silicone adhesives.

52. (new) The adhesive composition according to claim 47, wherein said composition further comprises at least one component selected from the group consisting of cellulose derivatives and polyethers.

53. (new) The adhesive composition according to claim 52, wherein said at least one cellulose derivative is selected from the group consisting of hydroxypropyl methyl cellulose, hydroxypropyl cellulose, sodium carboxymethyl cellulose, methyl cellulose, hydroxyethyl cellulose and hydroxypropyl ethyl cellulose.

54. (new) The adhesive composition according to claim 52, wherein said polyethers are polyvinylalkyl ethers selected from the group consisting of polyvinyl methyl ether, polyvinyl ethyl ether, polyvinyl isobutyl ether and polyvinyl cyclohexyl ether.